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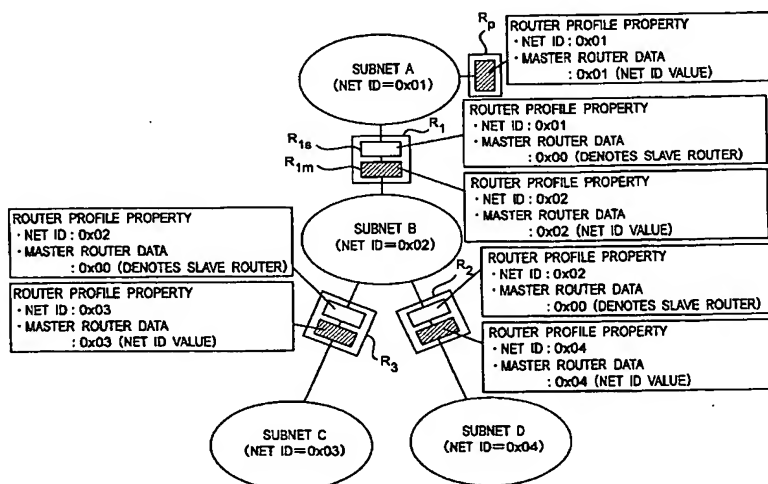
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(54) Title: ROUTING DEVICE AND STARTUP METHOD THEREOF IN A HOME NETWORK



(57) Abstract: One routing device connects plural networks on which a plurality of the other routing devices including a parent router are connected. The parent router manages network identification data to identify the plural networks. Master router data is included for each corresponding other routing device, respectively. Each master router data includes master router identification data identifying whether the corresponding other routing device is a "master router" which is located on a path to the parent router or a "slave router" which is a routing device other than the master router, and network identification data identifying a network to which the corresponding other routing device connects. Upon startup of the one routing device, the master router data is acquired from the other routing devices on the networks to which the one routing device connects. It is determined whether a router function of the one routing device is enabled based on the acquired master router data.



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 039 725 A (HITACHI LTD) 27 September 2000 (2000-09-27) abstract column 3, line 49 - column 4, line 9 column 22, line 44 - line 51 paragraph '0057! paragraph '0058! figure 1	1-14
A	US 6 052 736 A (VASHAW BARTON CLARK ET AL) 18 April 2000 (2000-04-18) abstract column 3, line 3 - line 34 column 4, line 55 - line 67 --- -/--	1-14

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☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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A	EP 1 115 263 A (MATSUSHITA ELECTRIC IND CO LTD) 11 July 2001 (2001-07-11) paragraph '0010! paragraph '0017! ---	1,7,13, 14
A	GARRETT S: "System And Application Management In A Homenetwork" PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON CONSUMER ELECTRONICS. (ICCE). ROSEMONT, JUNE 5 - 7, 1991, NEW YORK, IEEE, US, vol. CONF. 10, 5 June 1991 (1991-06-05), pages 86-87, XP010284293 ISBN: 0-7803-0001-7 the whole document -----	1,7,13, 14

INTERNATIONAL SEARCH REPORT

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1039725	A	27-09-2000	JP	2000244549 A	08-09-2000
			EP	1039725 A2	27-09-2000
<hr/>					
US 6052736	A	18-04-2000	NONE		
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EP 1115263	A	11-07-2001	EP	1115263 A1	11-07-2001
			CN	1319318 T	24-10-2001
			WO	0105186 A1	18-01-2001
			JP	2001086572 A	30-03-2001
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